



# HOT MELT NOZZLE THERMOCOUPLE

FOR DIRECT TEMPERATURE READINGS OF THE HOT PLASTIC MELT INSIDE YOUR NOZZLE!

TYPE J  
&  
TYPE K

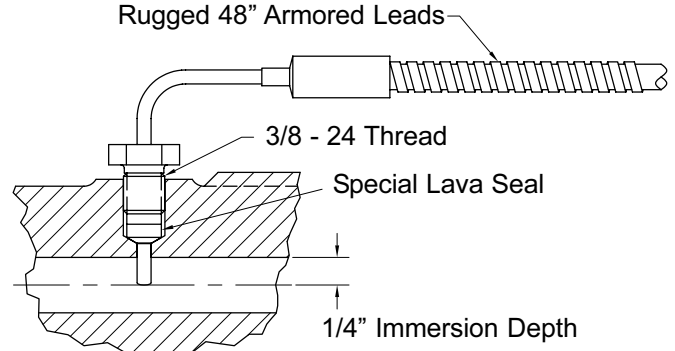
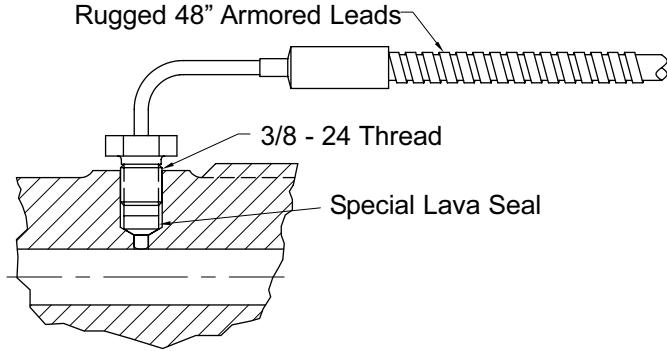
BOTH MODELS ARE REPLACEABLE AND INTERCHANGEABLE

## STYLE F

THERMOCOUPLE JUNCTION IS FLUSH IN NOZZLE WALL

## STYLE M

THERMOCOUPLE JUNCTION IS CENTERED IN HOT MELT STREAM



PPE STYLE F flush mount T.C. can be installed in most nozzles. The special wire junction mounts flush with the internal nozzle bore to avoid obstruction or damming the flow of plastic material. It is completely replaceable and does not require costly welding or factory replacement.

PPE STYLE M melt temperature sensing T.C. can be installed in most nozzles. The special sensing probe protrudes into the center of the hot melt stream for precise temperature readings. Some care must be exercised to avoid damaging the probe. Avoid cold starts or excessive molding pressure.

### PRICES

STYLE F, TYPE J Thermocouple #HMTTC-F .....	\$16.30
STYLE F, TYPE K Thermocouple #HMTCK-F .....	\$18.75
Drilling and Tapping Nozzle .....	\$22.00
Spare Lava Seal Packing #HMTTC-S .....	\$3.00
Hot Melt T.C. Hole Plug #HMP3824 w/lava seal .....	\$9.00
(Seals T.C. Hole when T.C. is removed)	

### PRICES

STYLE M, TYPE J Thermocouple #HMTTC-M .....	\$17.60
STYLE M, TYPE K Thermocouple #HMTCK-M .....	\$17.60
Drilling and Tapping Nozzle .....	\$22.00
Spare Lava Seal Packing #HMTTC-S .....	\$3.00

## GUIDE TO THERMOCOUPLE CONDUCTORS

A complete choice of ISA sensing ranges can be supplied depending on environment and read out equipment. Non-standard ISA sensing

ranges can be supplied on special order. In either case premium grade thermocouple wire is always used.

ISA Code	Conductor Characteristics				Temperature Range (°F)	Limits of Error		Application Notes
	Positive	Color	Negative	Color		Standard	Special	
J	Iron (Magnetic)	White	Constantan (Non-Magnetic)	Red	0 to 530	± 4°F	± 2°F	Reducing atmosphere recommend.
					530 to 1400	± 3/4%	± 3/8%	
T	Copper	Blue	Constantan (Silver Metal)	Red	-75 to 200	± 1-1/2°F	± 3/4°F	Can be used in oxidizing or reducing atmospheres: corrosion resistant.
					200 to 700	± 3/4%	± 3/8%	
K	Chromel (Non-Magnetic)	Yellow	Alumel (Magnetic)	Red	0 to 530	± 4°F	± 2°F	Oxidizing atmosphere recommended.
					530 to 2300	± 3/4%	± 3/8%	
E	Chromel	Purple	Constantan	Red	0 to 600	± 3°F	-	Oxidizing atmosphere recommended Highest emf output.
					600 to 1600	± 1/2%	± 3/8%	
S	Platinum 10% Rhodium	Black	Platinum	Red	0 to 1000	± 5°F	± 2-1/2°F	Oxidizing atmosphere recommended. Easily contaminated.
					1000 to 2700	± 1/2%	± 1/4%	
R	Platinum 13% Rhodium	Green	Platinum	Red	0 to 1200	± 5°F	± 2-1/2°F	Same conditions as 10% above but has slightly higher emf.
					1200 to 2700	± 1/2%	± 1/4%	
P6	Platinum 30% Rhodium	Grey	Platinum 10% Rhodium	Red	1000 to 3175	± 1/2%	-	Higher strength alloys than type S or R. Reduces drift in emf.
I	40% Iridium 60% Rhodium		Iridium		32 to 3600	-	-	Inert or vacuum atmospheres. Limited life in oxygen carrying atmospheres.
W	Tungsten	White	Tungsten 25% Rhenium	Red	32 to 800	± 8°F	-	Needs protective atmosphere such as hydrogen, inert gas or vacuum.
					800 to 4200	± 1°F	-	
W3	Tungsten 3% Rhenium		Tungsten 25% Rhenium		32 to 4350	± 2°F	-	Similar to Type W except greater ductility in positive leg.
C (W5)	Tungsten 5% Rhenium	White	Tungsten 26% Rhenium	Red	32 to 800	± 8°F	-	Higher mechanical strength than Type W Higher emf to 3400°F
					800 to 4100	± 1°F	-	
G	Geminiol P		Geminiol N		0 to 2300	± 3/4%	-	Better stability of emf at high temperature.
N	Nicrosil	Orange	Nisil	Red	32 to 2300	± 4°F	-	Replaces Type K, does not exhibit preferential oxidation problem found with K. Longer life and better stability than type K.